

SECTION 901 PORTLAND CEMENT CONCRETE

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SECTION 901 PORTLAND CEMENT CONCRETE (Cont'd)

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MATERIAL		REFERENCE	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANTITY	CERT.	SMALL QUANT.	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
CEMENT (Hydraulic) (Cont'd)	Types I, I(B), II, IP & IS (Pavement & Structural) Types I, I(B), I(C), II, IP, IS & III (Precast) (cont'd)	901.02 1001.01 1001.02 1001.04 Proj. Engr.	Accept.	-----	1/shipment	-----	CD 1 & 7	50 yd ³	17 days	(QPL 7)
		901.02 1001.01 1001.02 1001.04 Mat. Lab	Verif.	Proj. Engr. S 102	1/600 tons/ source*	1 gal Friction top can	CD** 1 & 7	50 yd ³	17 days	(QPL 7) *Maximum of one sample per day per source unless questionable. **Copy of CD shall be submitted with sample.
CONCRETE (Minor Structure)	Compressive Strength	901.08(f)(2) Dist. Lab	Accept.	Proj. Engr. S 301	3 cyl/50 yd ³	1 ft ³ 6 in. x 12 in. cylinder mold	-----	-----	30 days	-----
	Mix Design	901.06(a) Contractor/ Dist. Lab	Design/ Accept.	*	1/mix class or type/material source/plant	-----	-----	50 yd ³	3 days	(QPL 58 - Admixtures, QPL 2 - Aggregates, and QPL 7 - Cement.) *The contractor shall submit to the Dist. Lab Engr. the standard Mix Design form indicating the intended source of all materials and the mix design. Acceptance by the Dist. Lab Engineer is required prior to starting work.
	Slump and Air	901.12 Proj. Engr.	Accept.	Proj. Engr. S 301	1/50 yd ³	0.5 ft ³	-----	-----	1 day	When required in Table 1 or individual section.
CONCRETE (Pavement)	Entrained Air	901.06(b) Contractor	Quality Control	Contractor S 301	2/half day	0.25 ft ³	-----	-----	-----	Air test results shall be plotted on control charts which are required for documentation. Air tests will only be required when an air-entraining admixture is used.
		901.12 Proj. Engr.	Accept.	Proj. Engr. S 301	1/half day	0.25 ft ³	-----	-----	1 day	-----

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MATERIAL		REFERENCE	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANTITY	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
CONCRETE (Pavement) (Cont'd)	Mix Design	901.06(a) Contractor/ Dist. Lab	Design/ Accept.	*	1/mix type/ material source/plant	-----	-----	-----	3 days	*Contractor shall submit to the Dist. Lab Engr. the standard Mix Design form indicating the intended source for all materials and the mix design. Acceptance by the Dist. Lab Engineer is required prior to starting work.
	Mix Temperature	901.06(b) 901.11 Contractor	Quality Control	Contractor S 301	*	-----	-----	-----	-----	*When temperature control is needed, testing must be sufficient to prevent exceeding appropriate limits.
	Slump	901.06(b) Contractor	Quality Control	Contractor S 301	2/half day	0.5 ft ³	-----	-----	-----	Slump test results shall be plotted on control charts which are required for documentation.
		901.12 Proj. Engr.	Accept.	Proj. Engr. S 301	1/half day	0.5 ft ³	-----	-----	1 day	-----
	Unit Weight	901.06(b) Contractor	Quality Control	Contractor S 301	*	1.5 ft ³ 0.5 or 1 ft ³ yield bucket	-----	-----	-----	*Unit weight will be run as necessary.
CONCRETE (Structural)	Entrained Air	901.06(b) Contractor	Quality Control	Contractor S 301	2/lot	0.25 ft ³	-----	-----	-----	Air test results shall be plotted on control charts which are required for documentation.
		901.12 Proj. Engr.	Accept.	Proj. Engr. S 301	1/lot	0.25 ft ³	-----	-----	1 day	When pump placement is used, see "Application of Quality Assurance Specifications for Portland Cement Concrete Pavement and Structures" for details.
		901.12 Dist. Lab	I A	Dist. Lab S 301	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					

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MATERIAL		REFERENCE	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANTITY	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
CONCRETE (Structural) (Cont'd)	Compressive Strength	901.08(f)(1) Dist. Lab	Accept.	Proj. Engr. S 301	3 cyl/batch 2 batches/lot	1 ft ³ 6 in. x 12 in. cylinder mold	-----	-----	30 days	A lot is an identifiable pour not to exceed 200 yd ³ . For specific details see Specification Subsection 805.17.
		901.08(f)(1) Dist. Lab	I A	Dist. Lab S 301		SEE INDEPENDENCE ASSURANCE PROGRAM S 701.				
	Mix Design	901.06(a) Contractor/ Dist. Lab	Design/ Accept.	*	1/mix class/ material source/plant	-----	-----	-----	3 days	* Contractor shall submit to the Dist. Lab Engr. the standard Mix Design form indicating the intended source of all materials and the mix design. Acceptance by the Dist. Lab Engineer is required prior to starting work.
	Mix Temperature	901.06(b) 901.11 Contractor	Quality Control	Contractor S 301	*	-----	-----	-----	-----	* When temperature control is required, testing must be sufficient to prevent exceeding appropriate limits.
	Slump	901.06(b) Contractor	Quality Control	Contractor S 301	2/lot	0.5 ft ³	-----	-----	-----	Slump test results shall be plotted on control charts which are required for documentation.
		901.12 Proj. Engr.	Accept.	Proj. Engr. S 301	1/lot	0.5 ft ³	-----	-----	1 day	When pump placement is used, see "Application of Quality Assurance Specifications for Portland Cement Concrete Pavement and Structures" for details.
		901.12 Dist. Lab	I A	Dist. Lab S 301		SEE INDEPENDENCE ASSURANCE PROGRAM S 701.				
	Unit Weight	901.06(b) Contractor	Quality Control	Contractor S 301	*	1.5 ft ³ 0.5 or 1 ft ³ yield bucket	-----	-----	-----	* Unit weight will be run as necessary.

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